$$\begin{array}{ccccc}
70 & 35 & 41 \\
\times 11 & \times 52 & \times 41
\end{array}$$

# Warm Up Answers

### Homework Answers

#### 1.4 Record and Practice Journal



List the factor pairs of the	e number.	
1. 6	<b>2.</b> 7	3. 10
1 • 6, 2 • 3	1 • 7	1 • 10, 2 • 5

Write the prime factorization of the number.

- 7. 9 8. 24 9. 40  $\mathbf{2}^3 \cdot \mathbf{3}$   $\mathbf{2}^3 \cdot \mathbf{5}$
- A fitness instructor arranges 30 people into rows. Each row has the same number of people.
  - a. Can the instructor arrange the people into rows of 6?

yes

b. Can the instructor arrange the people into rows of 9?

no

1,2 5,10 1,2 5,10 2.15 1,2,4.4,8,16 . 16

Lesson 1.5

September 12, 2014

# Essential Question:

How can you find the greatest common factor of two numbers?

Lesson 1.5

# Lesson Objective:

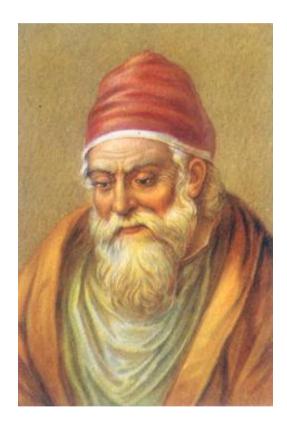
Students will be able to:

use Euclid's Ladder to find greatest common factors of two numbers.

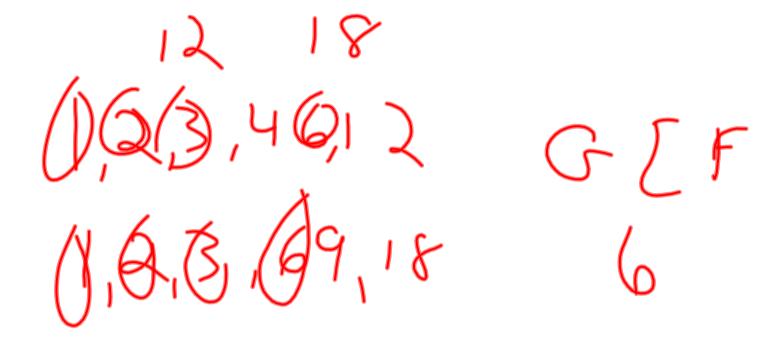
### Self-Evaluation Scale

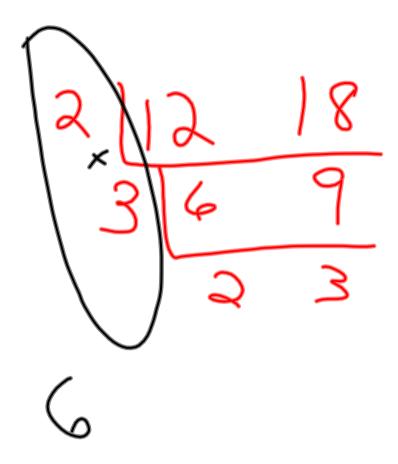
Score	Description
4	I can teach other students how to use Euclid's Ladder to find greatest common factors of two numbers.
3	I can use Euclid's Ladder to find greatest common factors of two numbers.
2	I recognize, but still need help to use Euclid's Ladder to find greatest common factors of two numbers.
1	I do not know how to use Euclid's Ladder to find greatest common factors of two numbers.

### Euclid

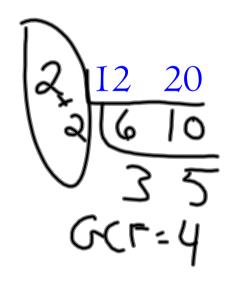


also known as Euclid of Alexandria, was a Greek mathematician, often referred to as the "Father of Geometry".





# Euclid's Ladder



### On Your Own



Lesson 1.5

September 12, 2014

# Essential Question:

How can you find the greatest common factor of two numbers?

Lesson 1.5

# Lesson Objective:

Students will be able to:

use Euclid's Ladder to find greatest common factors of two numbers.

### Self-Evaluation Scale

Score	Description
4	I can teach other students how to use Euclid's Ladder to find greatest common factors of two numbers.
3	I can use Euclid's Ladder to find greatest common factors of two numbers.
2	I recognize, but still need help to use Euclid's Ladder to find greatest common factors of two numbers.
1	I do not know how to use Euclid's Ladder to find greatest common factors of two numbers.

### Homework

In your Big Ideas Record and Practice Journal page 22.